

ABSTRACT OF THE DISCLOSURE

Devices, systems, methods, and compositions of matter can track and/or identify a library of elements, particularly for use with fluids, particulates, cells, and the like.

5 Signals from one or more semiconductor nanocrystals may be combined to define spectral codes. Separation of signal wavelengths within dedicated wavelength ranges or windows facilitates differentiation of spectral codes, while calibration signals within the spectral codes can avoid ambiguity. Modeling based on prior testing can help derive libraries of acceptable codes.

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